

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **22CZ-LD5-44SE-SQP-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-44SE-SQP-UNV-L850-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

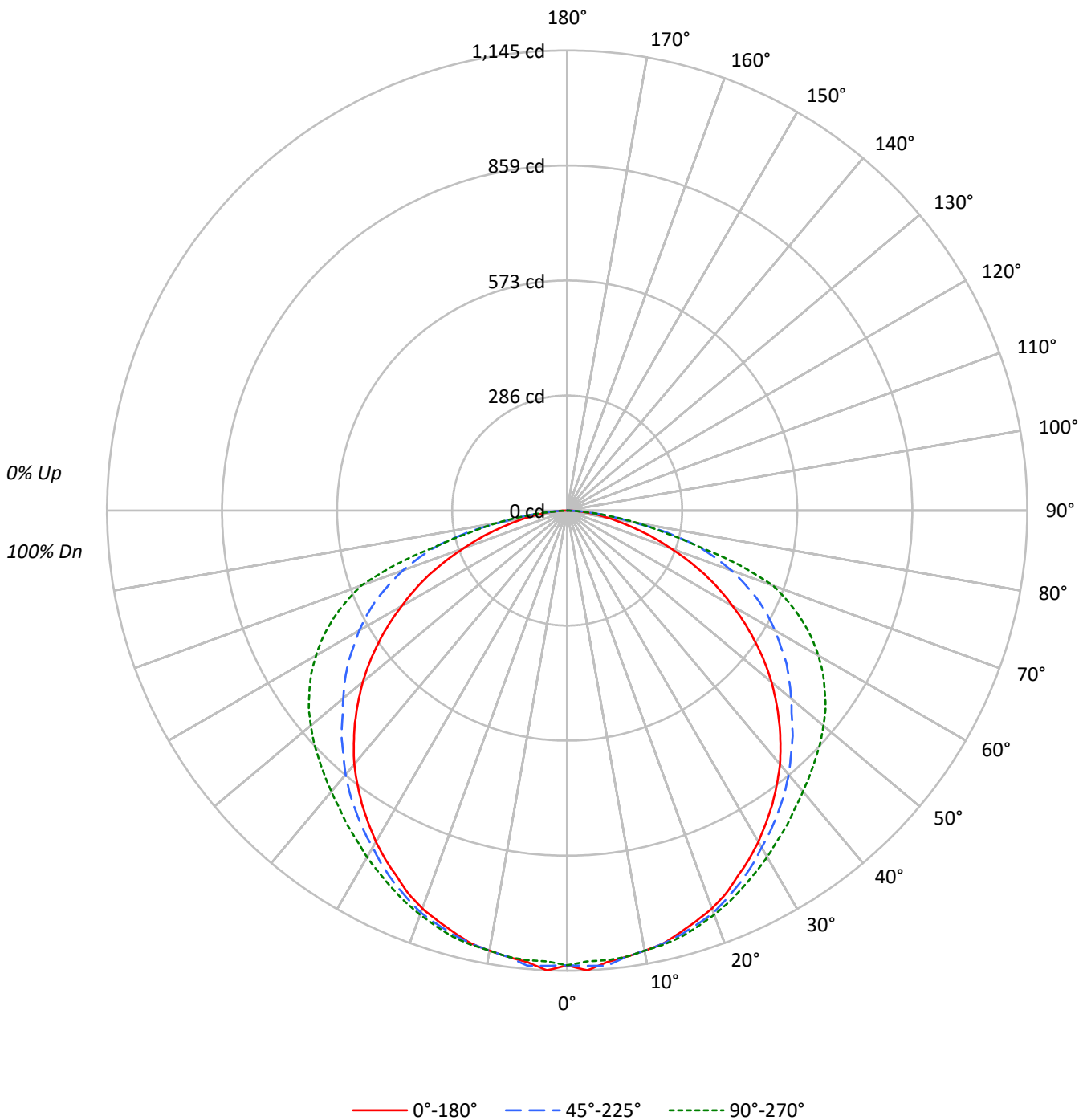
Lumens per Lamp: N/A  
Luminaire Lumens: 3561.6 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3044	3044	3044
5°	3035	3052	3020
10°	3012	3001	3012
15°	2988	2987	3019
20°	2964	2973	3010
25°	2913	2934	3002
30°	2874	2890	3007
35°	2827	2866	3029
40°	2779	2843	3077
45°	2707	2821	3168
50°	2623	2809	3290
55°	2507	2841	3428
60°	2356	2864	3576
65°	2179	2891	3706
70°	1894	2861	3769
75°	1575	2707	2860
80°	1235	1805	2137
85°	870	944	978



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	3.0
10°-20°	308.5	8.7
20°-30°	470.1	13.2
30°-40°	575.2	16.1
40°-50°	618.9	17.4
50°-60°	599.5	16.8
60°-70°	507.8	14.3
70°-80°	307.0	8.6
80°-90°	67.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	885.9	24.9
0°-40°	1461.1	41.0
0°-60°	2679.4	75.2
0°-90°	3561.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3561.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1128	1128	1137	1131	1123	107
15°	1087	1090	1093	1095	1098	307
25°	1004	1010	1021	1029	1034	463
35°	891	896	916	940	954	557
45°	747	761	794	844	874	576
55°	573	597	667	744	783	511
65°	379	420	523	606	644	373
75°	180	243	329	335	326	193
85°	44	53	55	53	50	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	1145.1	1142.3	1134.0	1128.5	1123.0
5°	1128.5	1128.5	1136.8	1131.3	1123.0
7.5°	1120.2	1120.2	1120.2	1134.0	1120.2
10°	1111.9	1114.7	1111.9	1123.0	1111.9
12.5°	1103.6	1103.6	1103.6	1106.4	1106.4
15°	1087.0	1089.8	1092.6	1095.3	1098.1
17.5°	1070.4	1073.2	1078.7	1081.5	1084.3
20°	1053.8	1056.6	1064.9	1064.9	1070.4
22.5°	1031.7	1031.7	1042.8	1045.5	1053.8
25°	1004.0	1009.6	1020.6	1028.9	1034.5
27.5°	979.1	984.7	995.7	1006.8	1015.1
30°	951.5	957.0	968.1	984.7	995.7
32.5°	921.1	926.6	943.2	962.6	973.6
35°	890.6	896.2	915.5	940.4	954.3
37.5°	857.4	865.7	887.9	915.5	932.1
40°	824.3	832.6	857.4	887.9	912.8
42.5°	785.5	796.6	824.3	865.7	893.4
45°	746.8	760.6	793.8	843.6	874.0
47.5°	705.3	719.1	757.9	821.5	854.7
50°	663.8	680.4	727.4	796.6	832.6
52.5°	619.6	636.2	697.0	771.7	810.4
55°	572.6	597.4	666.6	744.0	782.8
57.5°	525.5	553.2	630.6	713.6	755.1
60°	475.7	508.9	597.4	680.4	721.9
62.5°	428.7	464.7	561.5	644.5	686.0
65°	378.9	420.4	522.8	605.7	644.5
67.5°	326.4	378.9	478.5	558.7	597.4
70°	273.8	334.7	434.3	508.9	544.9
72.5°	226.8	290.4	384.5	448.1	448.1
75°	179.8	243.4	329.1	334.7	326.4
77.5°	138.3	199.1	257.2	235.1	240.6
80°	102.3	152.1	163.2	171.5	177.0
82.5°	69.1	102.3	105.1	110.6	110.6
85°	44.3	52.6	55.3	52.6	49.8
87.5°	19.4	22.1	16.6	11.1	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)